

**ABSTRACT**

Truncated thyroid hormone receptors  $\Delta\text{TR}\alpha 1$  and  $\Delta\text{TR}\alpha 2$  have been discovered to play a role in actin-based endocytosis, e.g., in the nervous system. The invention relates to methods of discovering ligands effective in modulating endocytosis and transgenic mice with altered expression of  $\Delta\text{TR}\alpha 1$  and  $\Delta\text{TR}\alpha 2$ . The invention is useful for the discovery and testing of compounds for treating disorders of the nervous system such as depression.